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KLEIN CONSULTING ENGINEERS, INC.

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May 10, 1991

Smith & Monroe & Gray Engineers, Inc.
Park Plaza West, Suite 210
10700 S.W. Beaverton Hwy.
Beaverton, Oregon 97005

Attn: Steve Rinella

Re: Ash Grove Cement West Seattle Plant Modernization

Dear Steve:

The following summarizes our meetings with City of Seattle drainage officials last Tuesday, May 7. Additionally, suggestions are offered relative to implementation of the next phase of this project, which we see as development of plans for permit approval.

Nate Fernow and I met with Sylvia Von Aulock and Neil Thibert (City of Seattle Engineering) Tuesday morning. We presented a conceptual plan to them which described the removal of the existing pond, separation of storm flows from truck wash waste water, and subsequent detention/discharge of the stormwater to the city storm sewer. The proposed discharge to Metro of the truck wash water was also discussed.

Please note that we also revised the plan discussed in our report. The pumping system was sized only to handle the peak anticipated flows released out of detention. (Previously, the line was sized to provide overflow capacity to pass the peak inflows into detention, as implied in City detention policy). This resulted in a discharge line size of 14" diameter ductile iron pipe, rather than the 20" size previously developed in our report. Additionally, (2)-20 hp pumps are recommended, instead of the three originally proposed.

When we requested clarification of the "overflow" policy, Neil Thibert explained that in commercial or industrial areas such as Ash Grove, the impact of large (25-100 year) storm events on the detention system "must be addressed". Often times, the City will allow overflow from an infrequent storm event to occur on-site if the owner is aware of this possibility and associated risk. At Ash Grove, detention overflow can be achieved which will limit ponding from large storm events to low areas around catchbasins.

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Another alternative would be to provide an overflow pipe which would discharge directly to the Duwamish. However, Neil Thibert seemed to indicate that this probably would not be necessary at Ash Grove. Later, a phone call to Kevin Fitzpatrick (DOE Permitting Officer) revealed that a DOE permit would be required to provide this emergency overflow. In addition to an apparent reluctance on DOE's part to issue such a permit, Fitzpatrick also implied that the procedural elements involved with the permitting procedure would be very time consuming.

NOTE
we presently
have such
a permit.

It appears at this time that in our submittal to the City, we should "address" the overflow problem, point out where on-site ponding may occur, and let them dictate if additional measures are required. We will design the system to limit any ponding to areas where standing water will not cause adverse on-site impacts.

Overall, it appeared that Neil Thibert was receptive to the proposal. He also provided us with names of various governmental contacts who will need to be notified as this project progresses.

As a result of this meeting and several others that occurred later in the day, the following information was developed.

1. We had some questions relative to the status of the Ash Grove master use permit. In particular, we were concerned that the proposed changes in stormwater disposal might result in the need to amend the master use permit. Neil Thibert felt that the master use permit would not require any revision due to the proposed change in stormwater disposal. I received the same response over the counter at the City Master Use Permit Department. I am currently waiting for a written response regarding this question from Christina VanValkenberg, the master use permit officer assigned to Ash Grove.
2. The National Pollution Discharge Elimination System (NPDES) permit status relative to industrial stormwater is still uncertain. Kevin Fitzpatrick (DOE) and Andrea Lindsay (EPA) provided us with some information, but it is evident that there is little coordination between the creators of NPDES (EPA) and the proposed administrators of the permitting process (DOE, Metro and other local agencies). According to Fitzpatrick, the only deadline set is for submittal of the permit application. Applications only need to be submitted by November 18, 1991; permits do not have to be obtained until some later, undetermined time. Fitzpatrick is sending me a copy of NPDES application form

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2F which I will forward on to Ash Grove if they have not already received a copy.

3. According to DOE, the existing waste discharge permit will be essentially vacated upon connection to the public system. Apparently, Metro will coordinate with DOE relative to the existing permit. However, Fitzpatrick agreed that it would be a good idea to send final approved City and Metro permits to his office. Upon receipt of these items, DOE will void the existing permit. Details relative to reimbursement of fees can be worked out at this time.
4. We are assuming that Ash Grove is working on the Metro permit with Stoneway. Please let us know if we are to provide any coordination with Metro relative to the sanitary sewer hook-up at this time.
5. After meeting with City Plan Review staff, we have developed a rough plan to implement the next phase of this project. Essentially, the City requires four (4) sets of plans and a fee (roughly \$1,200-\$1,300) prior to review on their part. The plans must contain at least the following:
 - 1) Vicinity map
 - 2) Plan of on-site detention, piping system to City.
 - 3) Profile of connection area (i.e. area within City right-of-way)
 - 4) Detail of flow-control system (pump, flow-control manhole, etc.)

We recommend that these plans be developed. We can then set up a meeting with Neil Watts (Plan Review). At this time, we can be appraised of any additional requirements needed by the City, as well as getting an exact fee determination from them. If any modifications are required, we can change the plans accordingly and submit shortly thereafter.

We can begin design early next week. For preliminary layout, we probably have enough good topographic information. However, some additional mapping will be required in the public right-of-way to develop a profile and pinpoint manhole and utility locations. Eventually, it may be necessary to also better define the topography along the proposed on-site storm sewer location. While our office can obtain this information, it may be less expensive to hire a local surveyor/engineer to provide this mapping. Your comments on this matter would be greatly appreciated.

We will perform refined hydrology/hydraulic computations required for design and submittal. I am coordinating with Neil Thibert

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ADEQUATE INFO

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and Ron Brand (City Design Engineer) to address the unique nature of the detention methodology used for this project. From this analysis, we will prepare a conceptual layout and provide specifications and guidelines to your office for development of the detail required by the City. Our information will consist of sketches and notes which can be installed onto your CAD system by your designers.

With your go ahead, we will begin running the numbers and develop a more refined preliminary plan. We should be able to begin supplying your designers with information by the end of next week. The following week will be needed for final coordination between our offices and the City.

City review can take up to six weeks, according to Neil Thibert. This is longer than the two to four week review span which was originally quoted to you.

Please call if you have any questions. Our new fax number is 357-5474.

Thanks.

Sincerely,

KLEIN CONSULTING ENGINEERS, INC.



Dan Keppen

DK:rw